LISTING OF CLAIMS

This following listing of claims replaces all prior listings or versions thereof:

- 1. (Previously presented) A method for selecting a yeast host cell that expresses a desired antibody or antibody fragment from a plurality of yeast host cells expressing candidate antibodies or antibody fragments, the method comprising the steps of:
 - (a) obtaining a library of vectors that encode a plurality of distinct candidate antibodies or antibody fragments, wherein said vector provides for the cell surface expression of said candidate antibodies or antibody fragments;
 - (b) expressing each of said plurality of candidate antibodies or antibody fragments on the surface of said plurality of yeast host cells; and
 - (c) selecting a yeast host cell that expresses a desired antibody or antibody fragment.

2-5. (Canceled)

- 6. (Previously presented) The method of claim 1, wherein selecting a yeast host cell that expresses a desired antibody comprises the steps of:
 - (a) contacting said antibody- or antibody fragment-expressing cells with a selected antigen; and
 - (b) identifying a yeast host cell that binds to said selected antigen.
- 7. (Original) The method of claim 6, wherein the antigen is labeled.
- 8. (Original) The method of claim 7, wherein the label is a fluorescent or chemilluminescent label.
- 9. (Previously presented) The method of claim 6, wherein said selected antigen is located on the surface of a cell other than said plurality of yeast host cells, and selecting a yeast host cell that binds to said selected antigen comprises the steps of:
 - (a) contacting said plurality of yeast host cells with said cell expressing or having conjugated thereto said selected antigen; and

- (b) identifying a yeast host cell bound to said cell expressing or having conjugated thereto said selected antigen.
- 10. (Previously presented) The method of claim 9, further comprising size sorting of cells bound in step (b).
- 11. (Previously presented) The method of claim 6, wherein said vector library is obtained by a method comprising the steps of:
 - (a) administering to an animal an immunologically effective amount of a composition comprising a selected antigen;
 - (b) obtaining from the animal a plurality of distinct DNA segments that encode distinct antibodies or antibody fragments; and
 - (c) incorporating said plurality of DNA segments into a plurality of expression vectors, the vectors expressing antibodies or antibody fragments on the outer membrane surface of said plurality of yeast host cells.
- 12. (Original) The method of claim 11, wherein said plurality of DNA segments are obtained by a method comprising the steps of:
 - (a) isolating mRNA from antibody-producing cells of said animal;
 - (b) amplifying a plurality of distinct RNA segments using a set of nucleic acid primers having sequences complementary to antibody constant region or antibody framework region nucleic acid sequences; and
 - (c) preparing a plurality of distinct DNA segments having sequences complementary to said amplified RNA segments.

13-14. (Canceled)

15. (Previously presented) The method of claim 1, wherein a cell that expresses a desired antibody or antibody fragment is subjected to cleavage to release the antibody or antibody fragment from the surface of the outer membrane.

16-17. (Canceled)

- 18. (Previously presented) The method of claim 6, wherein said selected antigen is linked to a fluorescent label, a chemilluminescent label, a radioactive label, biotin, avidin, a magnetic bead or an enzyme that generates a colored product upon contact with a chromogenic substrate.
- 19. (Previously presented) The method of claim 18, wherein identifying a yeast host cell that binds to said selected antigen comprises the steps of:
 - (a) contacting said plurality of yeast host cells with said detectably labeled antigen under conditions effective to allow specific antigen-antibody binding;
 - (b) removing non-specifically bound antigen from said yeast host cells; and
 - (c) identifying a yeast host cell that binds to said selected antigen by detecting the presence of the bound detectable label.
- 20. (Previously presented) The method of claim 19, wherein said yeast host cell that binds to said selected antigen is identified by a method comprising the steps of:
 - (a) contacting said plurality of yeast host cells with a fluorescently labeled antigen under conditions effective to allow specific antigen-antibody binding;
 - (b) subjecting said yeast host cells to automated cell sorting; and
 - (c) identifying a yeast host cell that expresses an antibody or antibody fragment that binds to said selected antigen by detecting the fluorescently labeled sorted cells.
- 21. (Previously presented) The method of claim 20, wherein step (b) comprises sorting by flow cytometry.
- 22. (Previously presented) The method of claim 20, further comprising a second round of automated cell sorting.
- 23. (Original) The method of claim 22, wherein regrowth of sorted cells is conducted between said first and said second rounds of cell sorting.
- 24. (Previously presented) The method of claim 22, further comprising a third and a fourth round of automated cell sorting.

- 25. (Original) The method of claim 18, wherein said selected antigen is linked to a magnetic bead.
- 26. (Previously presented) The method of claim 25, wherein a yeast host cell the expresses an antibody or antibody fragments that binds said antigen are selected are identified by a method comprising the steps of:
 - (a) contacting said plurality of yeast host cells with said magnetic bead labeled antigen under conditions effective to allow specific antigen-antibody binding;
 - (b) subjecting said plurality of yeast host cells to magnetic sorting; and
 - (c) identifying a yeast host cell expressing said desired antibody- or antibody fragment by detecting the magnetic bead labeled sorted cells.

27-46. (Canceled)